This report contains data through the week ending03/30/2013 (MMWR week 13).



Overview of Influenza Surveillance: Surveillance for the 2012-2013 influenza season officially began on September 30, 2012. The Utah Department of Health publishes a weekly report throughout the active influenza season that synthesizes data from a variety of sources to give the most complete and up-to-date picture of influenza activity in the state of Utah. Data in this report should be considered provisional, and may change as more complete reports are recieved.

Influenza-like Illness (ILI): The U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) is a national system that conducts surveillance for influenza-like illness (ILI) in outpatient healthcare facilities. ILINet providers report weekly the total number of patients seen for any reason and the number of patients seen with ILI (defined as a fever ≥ 100° F and a cough or sore throat). These data are used to determine the amount of ILI circulating in the community, as well as provide insight into regional differences in ILI activity. Currently, more than 50 facilities throughout Utah participate in ILINet.

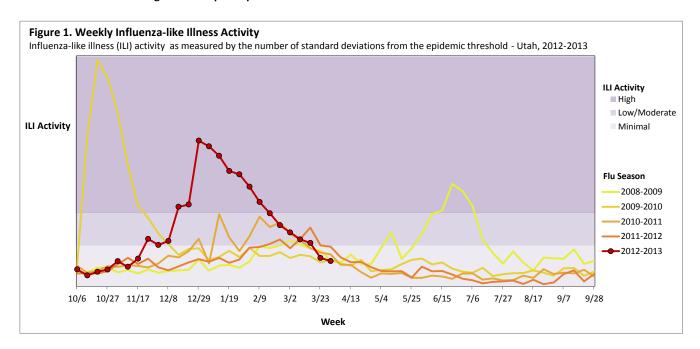


Table 1. Influenza-like Illness (ILI) Activity Levels by Health District - Utah, Current Week

Health District	ILI Activity
Bear River	Minimal
Central	Minimal
Davis	Minimal
Salt Lake	Minimal
Southeastern	No Data
Southwest	Minimal
Summit	Minimal
Tooele	Minimal
TriCounty	No Data
Utah	Minimal
Wasatch	Minimal
Weber-Morgan	Minimal
State	Minimal

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Influenza Hospitalizations: Influenza hospitalizations are a reportable condition in Utah. A person meets the case definition for an influenza hospitalization if they are hospitalized for any length of time and have an influenza positive serology, DFA, PCR, or culture test (confirmed case) or a positive rapid influenza diagnostic test (probable case). Public health in Utah gathers a variety of data on influenza hospitalizations including clinical features, course of illness, risk and protective factors, and influenza type and subtype. Data from influenza hospitalizations allows public health in Utah to better understand subgroups of the Utah population that are most severely effected by influenza and help to guide prevention messages and interventions.

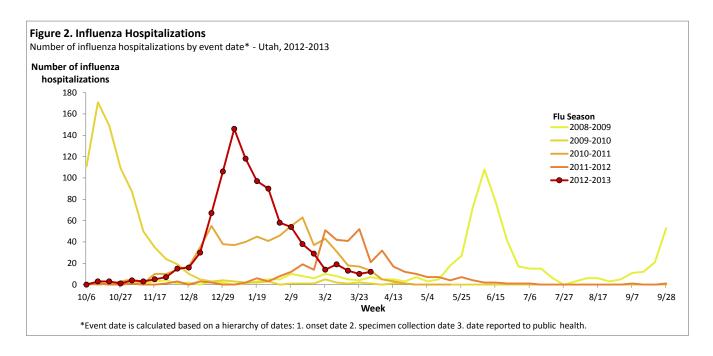


Table 2. Influenza Hospitalizations by Case Status - Utah

	Current Week		Season To Date		
Case Status	Total 9	% of Cases	Total 9	6 of Cases	
Confirmed	10	83.3	900	93.9	
Probable	2	16.7	58	6.1	
Total	12	100.0	958	100.0	

Table 3. Influenza Hospitalizations by Health District - Utah

Health District	Current Week	Season To Date
Bear River	1	49
Central	0	40
Davis	1	70
Salt Lake	6	430
Southeastern	0	3
Southwest	1	103
Summit	0	14
Tooele	0	5
TriCounty	0	16
Utah	2	149
Wasatch	0	4
Weber-Morgan	1	75
State	12	958

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Table 4. Influenza Hospitalizations by Age Group - Utah, Season To Date

Age Group	Total Cases	% of Cases	Rate*
0-4	196	20.5	72.43
5-24	131	13.7	13.85
25-49	118	12.3	11.90
50-64	134	14.0	33.46
65+	379	39.6	153.45
Total	958	100.0	33.54

^{*}Rate is calculated as the number of cases per 100,000 population

Table 5. Influenza Hospitalizations by Sex and Race - Utah, Season To Date

Variab	le	Num. of Cases	% of Cases	% in Utah Pop	p value*
Sex	Male	471	49.2	50.3	0.4814
	Female	487	50.8	49.7	0.4814
	Unknown	0	0.0	NA	
Race	White, Not Hispanic	765	79.9	82.0	0.0781
	Hispanic	117	12.2	11.6	0.5451
	Native Hawaiian/Pacific Islander	30	3.1	0.7	<0.0001
	Black/African American	13	1.4	0.9	0.1720
	American Indian	9	0.9	1.1	0.5728
	Asian	23	2.4	1.9	0.2242
	Unknown	1	0.1	NA	

^{*}If a p value is \leq 0.05, there is a significant difference between the percentage seen in influenza hospitalizations and the general Utah population.

Table 6. Summary Data for Influenza Hospitalizations - Utah, Season To Date

	Yes	Yes		No		Unknown	
Variable	Total % of Cases		Total % of Cases		Total % of Cases		
ICU	149	15.6	728	76.0	81	8.5	
Ventilator	57	5.9	820	85.6	81	8.5	
Died	32	3.3	839	87.6	87	9.1	
Neurological Symptoms	112	11.7	751	78.4	95	9.9	
Healthcare Worker	7	0.7	548	57.2	403	42.1	
Pregnant	30	3.1	872	91.0	56	5.8	
Heart Disorder	287	30.0	585	61.1	86	9.0	
Blood Disorder	24	2.5	845	88.2	89	9.3	
Kidney Disorder	84	8.8	785	81.9	89	9.3	
Metabolic Disorder	236	24.6	635	66.3	87	9.1	
Chronic Respiratory Disorder	279	29.1	595	62.1	84	8.8	
Immunosuppressed	91	9.5	773	80.7	94	9.8	
Neurological Disorder	112	11.7	751	78.4	95	9.9	
Seizure Disorder	33	3.4	838	87.5	87	9.1	
Bacterial Co-infection	14	1.5	855	89.2	89	9.3	
Obese*	196	31.1	323	51.3	111	17.6	
Morbidly Obese*	42	6.7	477	75.7	111	17.6	
Risk Factor†	873	91.1	85	8.9	0	0.0	
Vaccinated	336	35.1	416	43.4	206	21.5	

^{*}Obesity and morbid obesity is not considered for individuals under 18 years or pregnant women. Thus total counts will not equal the total number of influenza-associated hospitalizations

[†]Risk factors for influenza include: persons < 5 years, persons ≥ 65 years, pregnant women, and persons with a chronic medical condition.

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Student Absenteeism: School-age children are at high risk for respiratory virus infections, including influenza. Aggregate, all-cause absenteeism data is collected weekly from over 350 schools throughout Utah. These data are analyzed to identify elevated absenteeism rates that could indicate the circulation of influenza in school-age children.

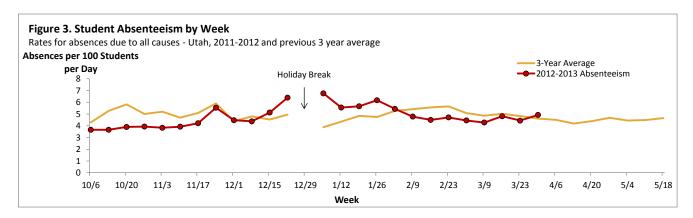
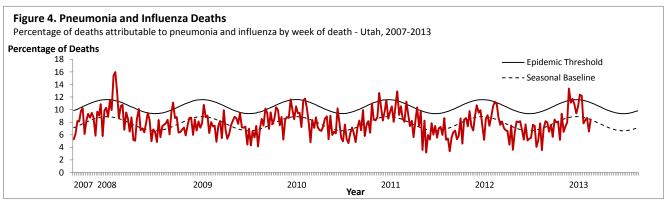


Table 7. Weekly Student Absenteeism - Utah, Current Week

Health District	Absences per 100
	students/day
Bear River	3.9
Central	4.0
Davis	4.3
Salt Lake	5.1
Southeast	7.3
Southwest	6.0
Summit	4.9
Tooele	6.3
TriCounty	5.5
Utah	2.4
Wasatch	5.5
Weber-Morgan	5.2
State	5.2

Pneumonia and Influenza Deaths: Each week the total number of death certificates received and the number of those for which pneumonia or influenza was listed as an underlying or contributing cause of death is collected. The percentage of deaths due to pneumonia and influenza are compared with a seasonal baseline and epidemic threshold value calculated for each week. These data are used to monitor the severity of influenza illness in the community.



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Laboratory Surveillance: The Unified State Laboratory: Public Health recieves specimens from all over the state for comprehensive influenza testing. All specimens are tested to determine influenza type and subtype. A portion of specimens are also sent to the Centers for Disease Control and Prevention for additional testing, including gene sequencing, antiviral resistance testing and antigenic characterization.

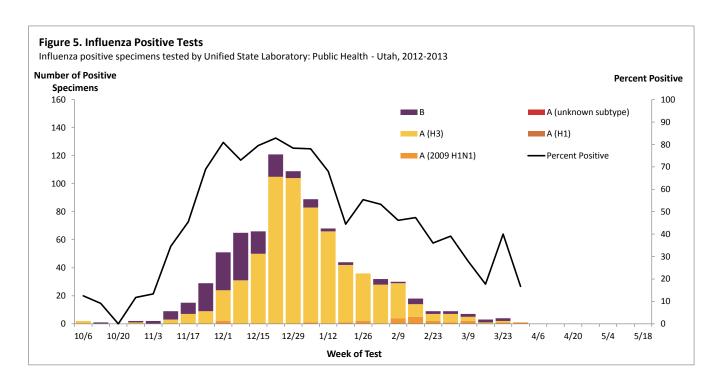


Table 8. Unified State Laboratory: Public Health Influenza Testing Data

	Current \	Neek	Season T	o Date			
	Total	Percent	Total	Percent			
Specimens tested	6		1,336				
Positive specimens	1	16.7	822	61.5			
Pos	Positive Specimens by Type/Subtype						
Influenza A	1	100.0	657	79.9			
A (2009 H1N1)	1	100.0	22	3.3			
A (H1)	0	0.0	0	0.0			
A (H3)	0	0.0	635	96.7			
A (unable to subtype)	0	0.0	0	0.0			
Influenza B	0	0.0	165	20.1			